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Salone internazionale delle tecnologie e soluzioni per pavimentazioni stradali, sicurezza, servizi e infrastrutture viarie

Bologna, 9-12 Ottobre 2024
Quartiere Fieristico

The roads to **Be Green**



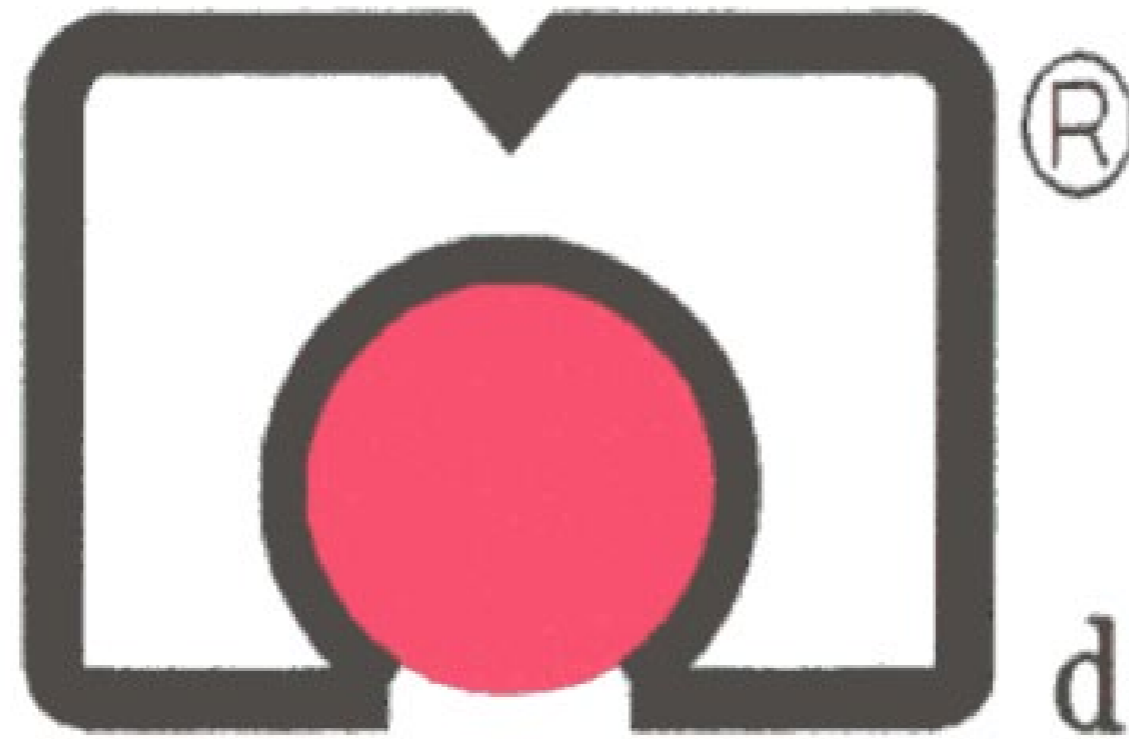
AGORÀ SITEB - GRUPPO PRIMI

MEMBRANE BITUMINOSE NUOVA VITA CON L'END OF WASTE

OUR CONSOLIDATED EXPERIENCE WITH CIRCULAR ECONOMY

MASSIMO MENESTRINA– MENESTRINA

9 Ottobre 2024



dal 1895

MENESTRINA

OUR CONSOLIDATED EXPERIENCE WITH

Circular economy



Targeting a **ZERO WASTES** technology in 1996...

Want to make a profit on your membrane waste?



The Macaluser[®]
Solution

Two top companies come together to help you gain from their experience.

The Imperbel Group, founded in 1932, is internationally recognised as one of the most renowned players in the sector of waterproofing products. A pioneering company in the field of cold adhesives, it has put all its talent to work in developing sustainable, fire-resistant, and ecological products, with the launch of a completely new product intended to reduce global warming. For many years now, the company has also been committed to a strategy of "Ecomanagement".



Menestrina is a company established in Trento, Italy, since 1895. Its experience in the industrial world of asphalt and of thermal oil heating systems is virtually unrivalled. Its "quality first" approach has earned it a solid reputation and glowing testimonials the world over. Menestrina develops personalised solutions, made to last, whether for asphalt production units, or for production equipment for water- and airtight membranes and modified asphalt.

Menestrina is proud to work with a company such as IMPERBEL in marketing a machine that is UNIQUE and truly revolutionary at the environmental level. Indeed, Imperbel has always taken an enterprising approach in this area. And this has been recognised by a number of environmental certifications, such as ISO 14001 and EMAS.

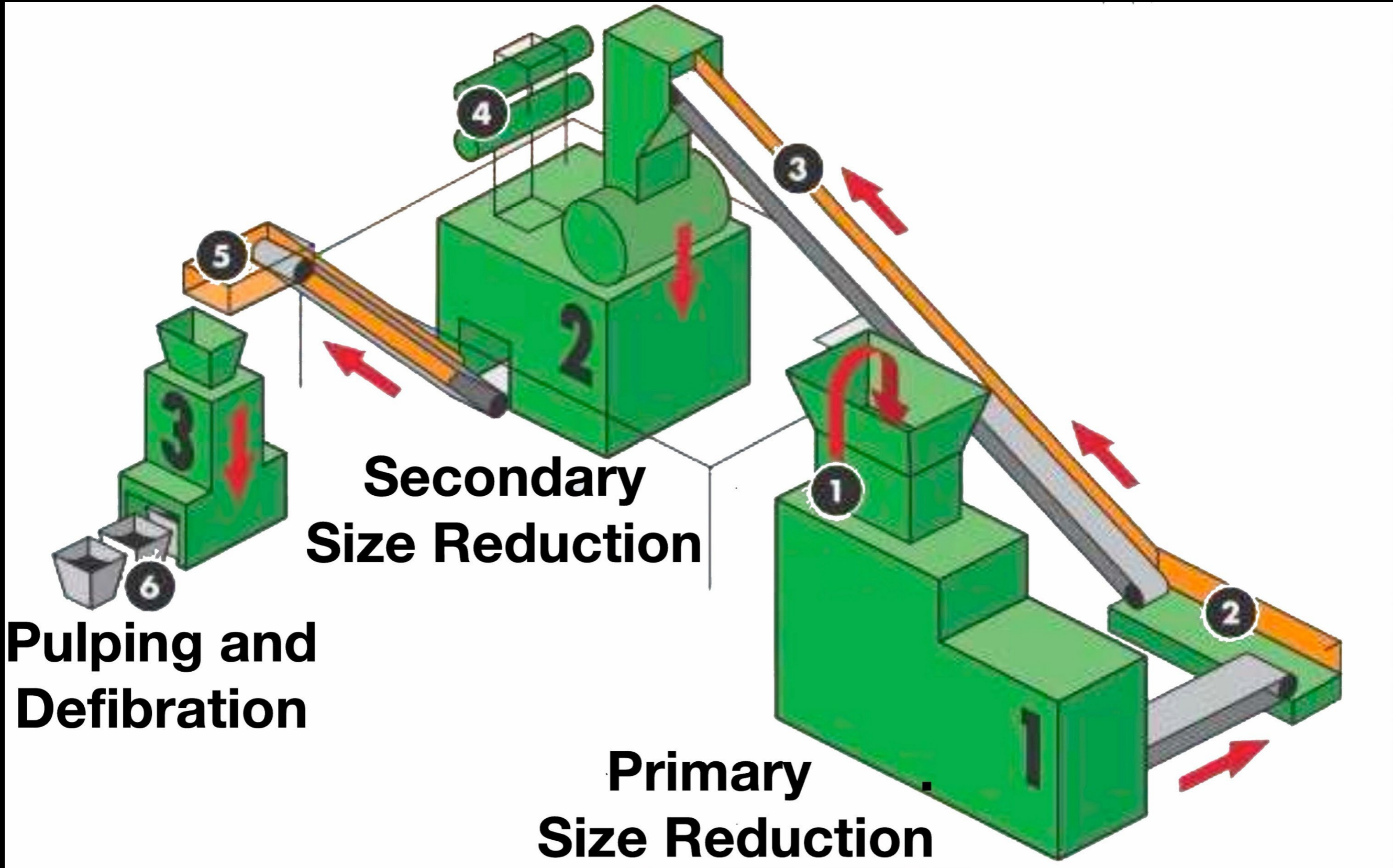


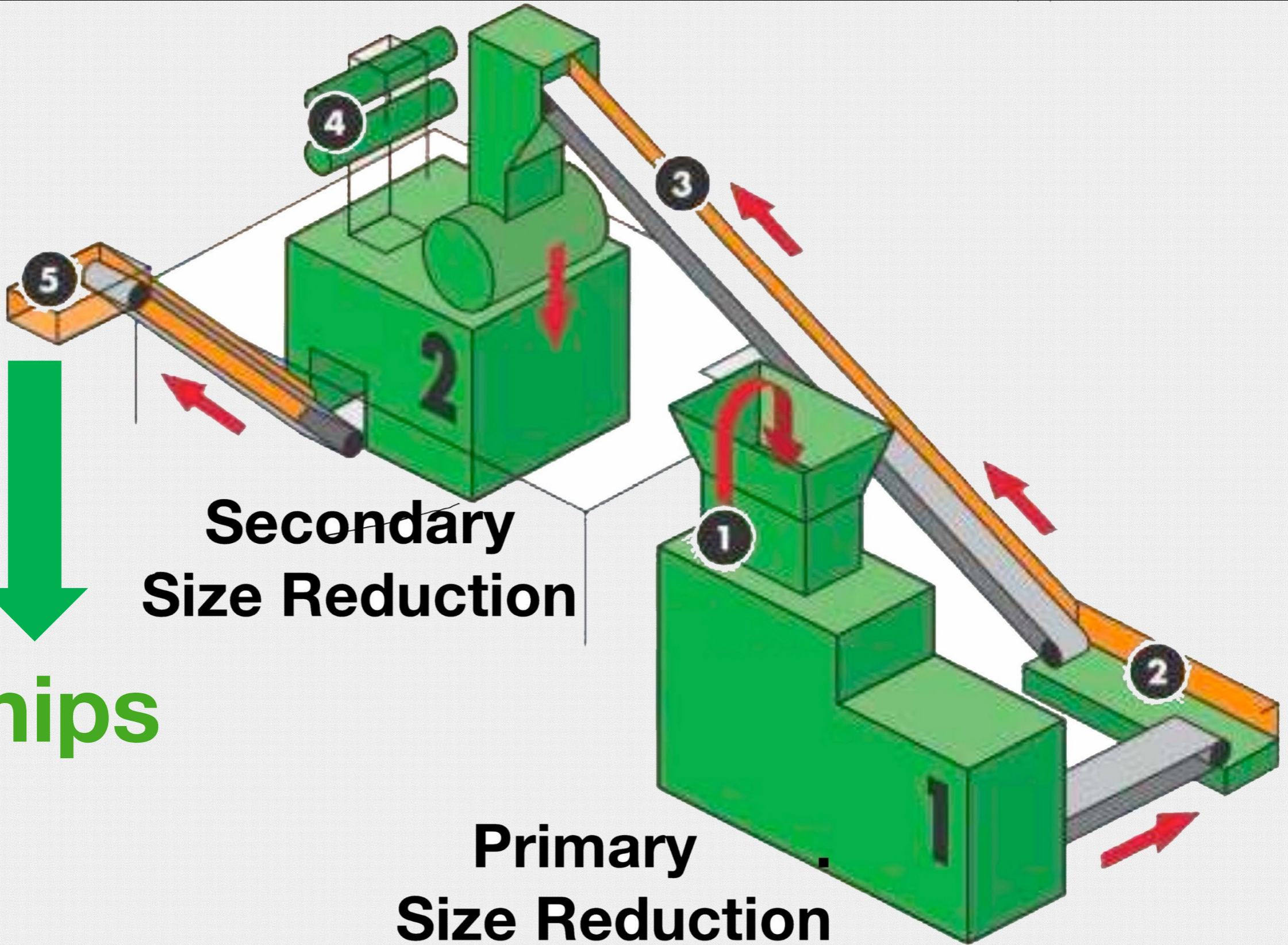
AN ECO-DYNAMIC COMPANY

If you would like more information about the output of the machine, its technical nature, or its cost, then please do not hesitate to contact us for a personalised interview.

Menestrina Ltd. - Tel: +39 0461 822 643 - Fax +39 0461 824 206 - E-mail: info@menestrina.it - www.menestrina.it

...and getting it patented already in 1998





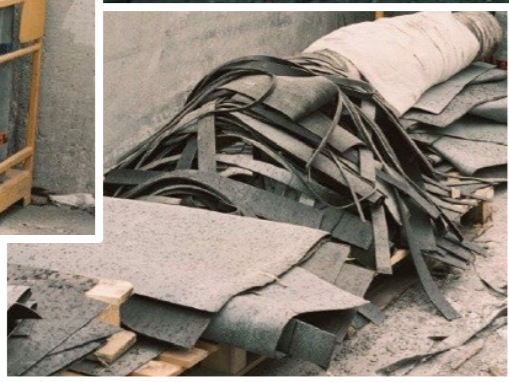
Bitumen is...



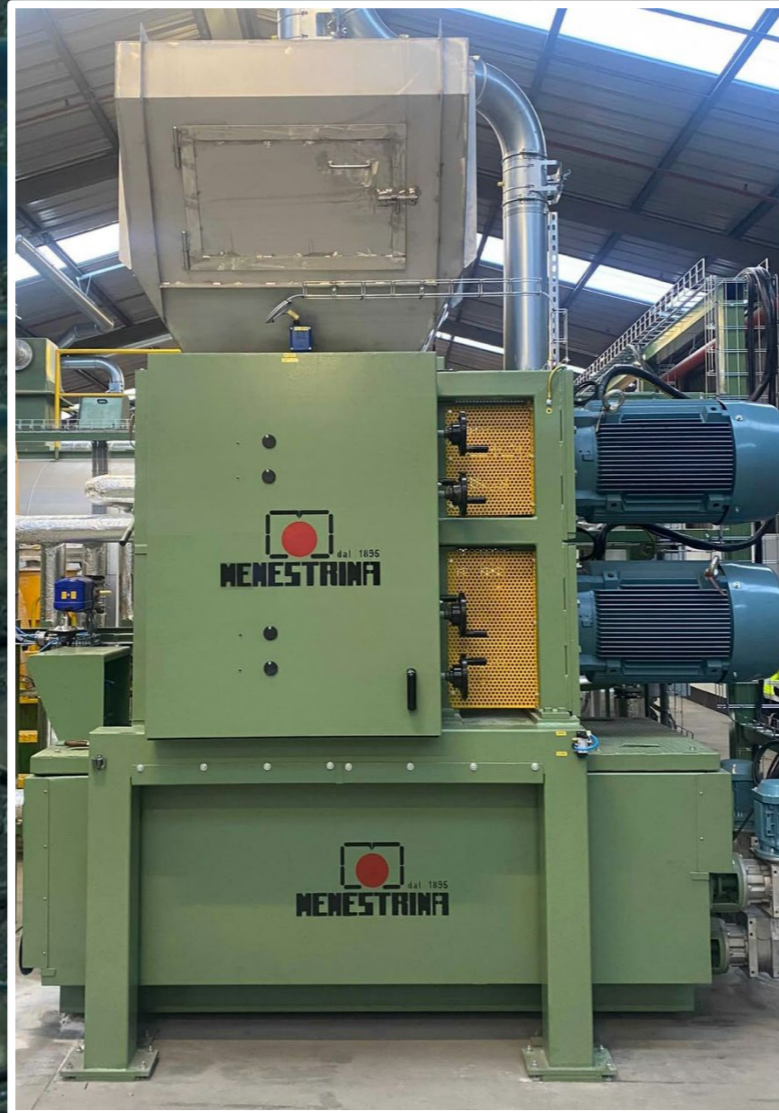
100% RECYCLABLE!

INDUSTRIAL PLANT (BE):

- 25+ years of industrial recycling
- 65.000 Ton recycled
- ≈ 16 million m² membranes



**30 Ton/day
of wastes**



**30 Ton/day of
NEW RAW
MATERIAL**



INDUSTRIAL PLANT (BE):

Recycling to be intended

as a fully integrated environment,

inside and outside the factory.

THREE SOURCES:

Production waste



Application cut-off



Landfilled old roofing



Production waste:



- ✓ **All products are 100% recycled, except those having a metal surface**
- ✓ **Mineral-surfaced products are 100% recycled**
- ✓ **Single and double reinforcement products are 100% recycled**

Application cut-off:



Promoting the right mentality on the job site, by:

- ✓ **Educating the Roofers to proper procedures (training & certification)**
- ✓ **Supporting the site Staff and monitoring their deliveries**

Landfilled old roofing:



Building up an efficient collection network, by:

- ✓ **Creating an added-value chain with roofing/demolition/landfill companies**
- ✓ **Educating the site staff to identify and separate contaminants**
- ✓ **Engage back-to-back with the logistic for the associated paperwork**

A

CAPILLARY

COLLECTION

AND DELIVERY

NETWORK



Europe's landfilled old roofing **POTENTIAL:**



50 million Tons of bitumen = 100 Supertankers

Expectable **recyclables mix** from experience:

An averaged mix of recycled wastes has shown to be:

✓ Production wastes	Virgin Compound	25% (on yearly bases)
✓ Job cut-off	Virgin Compound	20% (on yearly bases)
✓ Landfilled old roofing	Aged Compound	55% (on yearly bases)



Benefits provided by the **recyclables mix**:

By the side of the improved market appeal:

- ✓ The resulting compound also includes polymers, better than just bitumen
- ✓ No more landfilling, no more associated costs (landfilling maybe even forbidden in the future)
- ✓ Much better LCA – Life Cycle Assessment
- ✓ (use of recycled materials maybe even enforced by law in the future)
- ✓ Direct reduction of the own production cost's structure





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MENESTRINA

**Bitumen roofing recycling
means playing a fully active role in
CIRCULAR ECONOMY**





THANK YOU